

September 16, 1955

Dr. E. L. Tatum  
Department of Biological Sciences  
Stanford University  
Stanford, California

Dear Dr. Tatum:

I will gladly participate in the session on Gene-Enzyme Relations at the Henry Ford Hospital. Thank you for this opportunity. From your letter, and the fact that Horowitz is on the same program, I assume that you would like me to restrict my formal presentation to the work on the td mutants and its implications. I'm sure I will be able to cover this material in 20 minutes.

Regarding the discussion period, one point I would like to see discussed is the possible existence of two types of gene-enzyme systems - biosynthetic enzymes under single gene control and the non-biosynthetic enzymes under multigenic control. Or is this distinction only apparent?

I also think the significance of the linkage-biochemical sequence studies of Demerec's group should be discussed, particularly in relation to evolution and the fact that in *Neurospora* the genes controlling the same reactions (in tryptophan synthesis) are on different chromosomes (although on the basis of centromere distances alone they line up with the exception of 7655).

I will send you several copies of an outline of my talk as soon as I can. If possible, I would like to know what Horowitz and Lederberg plan to cover - it will aid in the discussion.

Thanks again,

Sincerely,

Charles Yanofsky

CY/gw